

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
Washington, D.C. 20460

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DATA MATRIX

Date: April 12, 2010		EPA Reg. No./File Symbol: 11678-57		Page of 18	
Applicant/Registrant Name & Address: Makhteshim-Agan of North America Inc. 4515 Falls of Neuse Road, Suite 300, Raleigh, NC 27609		Product: RIMON® Technical			
Ingredient: Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Physical and Chemical Properties:					
158.155 (OPPTS 830.1550)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
158.160 (OPPTS 830.1600)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
158.162 (OPPTS 830.1620)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
158.165 (OPPTS 830.1650)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
158.167 (OPPTS 830.1670)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
158.170 (OPPTS 830.1700)	Rimon-Quantification of Active Ingredient and Impurities present at or above 0.1% in technical Rimon (FIFRA Guideline-Series 62)	44961004	Makhteshim-Agan of North America Inc.	OWN	
158.175 (OPPTS 830.1750)	Rimon-Quantification of Active Ingredient and Impurities present at or above 0.1% in technical Rimon (FIFRA Guideline-Series 62)	44961004	Makhteshim-Agan of North America Inc.	OWN	
158.180 (OPPTS 830.1800)	Rimon-Quantification of Active Ingredient and Impurities present at or above 0.1% in technical Rimon (FIFRA Guideline-Series 62)	44961004	Makhteshim-Agan of North America Inc.	OWN	
64-1 (OPPTS 830.1900)	Submittal of samples	NA	Makhteshim-Agan of North America Inc.	OWN	
63-2 (OPPTS 830.6302)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-2 (OPPTS 830.6302)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-3 (OPPTS 830.6303)	Rimon Technical: Physical State; Stability; pH; and solubility.	44961005	Makhteshim-Agan of North America Inc.	OWN	
63-4 (OPPTS 830.6304)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-4 (OPPTS 830.6304)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	

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Ingredient: Novaluron

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
63-5 (OPPTS 830.7200)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-6 (OPPTS 830.7220)	Boiling point/boiling range	NA	NA	NA	Not required
63-7 (OPPTS 830.7300)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-8 (OPPTS 830.7840)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-8 (OPPTS 830.7840)	275-352 I: Water solubility	Not assigned	Makhteshim-Agan of North America Inc.	OWN	
63-8 (OPPTS 830.7860)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-8 (OPPTS 830.7860)	275-352 I: Water solubility	45651501	Makhteshim-Agan of North America Inc.	OWN	
63-9 (OPPTS 830.7950)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-10 (OPPTS 830.7370)	Rimon Technical: Color, Odor, UV/Vis Absorption, Melting point, Density; Dissociation Constant; Partition Coefficient (Octanol / water), Solubility, and Vapor Pressure.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-11 (OPPTS 830.7550)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	
63-12 (OPPTS 830.7000)	Rimon Technical: Physical State; Stability; pH; and solubility.	44961005	Makhteshim-Agan of North America Inc.	OWN	
63-13 (OPPTS 830.6313)	Rimon Technical: Physical State; Stability; pH; and solubility.	44961005	Makhteshim-Agan of North America Inc.	OWN	
63-14 (OPPTS 830.6314)	Oxidation/reduction: chemical incompatibility	NA	NA	NA	Not required
63-15 (OPPTS 830.6315)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-16 (OPPTS 830.6316)	Rimon Technical: Determination of the physico-chemical properties. GLP, Unpublished	44961007	Makhteshim-Agan of North America Inc.	OWN	
63-17 (OPPTS 830.6317)	Comb. A. (2003) "Rimon" (Technical Grade) Storage Stability. Project	46086201	Makhteshim-Agan of North America Inc.	OWN	

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Ingredient: Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	Number: MAK/760, R/14502, MAK760/032350.				
63-18 (OPPTS 830.6318)	Viscosity	NA	NA	NA	Not required
63-19 (OPPTS 830.7100)	Miscibility	NA	NA	NA	Not required
63-20 (OPPTS 830.6320)	Corrosion Characteristics	NA	NA	NA	Not required
63-21 (OPPTS 830.6321)	Dielectric breakdown voltage	NA	NA	NA	Not required
NONE (OPPTS 830.7050)	Rimon (Pure): Determination of the physico-chemical properties.	44961006	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient: Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<u>Residue Chemistry:</u>					
171-2 (OPPTS 860.1100)	"Rimon" (Novaluron) Product Chemistry Data: Product Identity and Disclosure of Ingredients, Description of Beginning Material and Manufacturing, and Discussion of Formation of Impurities.	44961003	Makhteshim-Agan of North America Inc.	OWN	
171-3 (OPPTS 860.1200)	Directions for use	NA	Makhteshim-Agan of North America Inc.	OWN	See attached Product Label
171-4 (OPPTS 860.1300)	¹⁴ C "RIMON": Metabolism in apples.	45638226	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1300)	¹⁴ C "RIMON": Metabolism in cabbages.	45638227	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1300)	¹⁴ C "RIMON": Metabolism in potatoes.	45771803	Makhteshim-Agan of North America Inc.	OWN	

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Ingredient: Novaluron

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-4 (OPPTS 860.1300)	¹⁴ C-"RIMON": Metabolism in cotton.	45638302	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1300)	¹⁴ C "RIMON" Metabolism in the lactating goat.	45638303	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Development and validation of an analytical method for the determination of Rimon in apples, cabbages and potatoes	45638304	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Radiovalidation of Residue Method for the Determination of Novaluron in Cotton. Project Number: 1122W/1, 1122W, 2002/020.	46714901	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Independent Validation of the Analytical Method for Novaluron (Rimon) in Apples.	45638305	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Independent Validation (ILV) of an HPLC/UV Based Analytical Method for the Determination Novaluron in Cotton.	45638306	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	The development and validation of methodology for the determination of RIMON residues in Bovine tissues (fat, kidney, liver, muscle), milk and eggs	45638307	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Radiovalidation of Analytical Method for Determination of Novaluron in Bovine Tissues. Project Number: MAK/797, MAK/797/032011, 2002/119.	46714902	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Determination of Novaluron in Sorghum Agricultural and Processing Commodities by LC-MS/MS. Project Number: 189, MANA/07102008. Unpublished study prepared by Morse Laboratories, Inc. 45 p.	47486302	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Novaluron: Independent laboratory validation (ILV) of methodology for the post-registration monitoring of residues of Novaluron in milk, muscle and liver.	45638308	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1340)	Novaluron: Laboratory validation of Methods for the analysis of novaluron in/on butter, processed meat, milk, white bread, lettuce, and dinner plate. Project No. 234C-106. Unpublished study prepared by Wildlife International.	48034901	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1380)	Storage stability: Magnitude of the Residue of Novaluron in Pome Fruit Raw Agricultural and Processed Commodities and Magnitude of the Residue of Novaluron in Cotton Raw Agricultural and Processed Commodities	45638420	Makhteshim-Agan of North America Inc.	OWN	Magnitude of the residue studies included storage stability testing.

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Ingredient: Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-4 (OPPTS 860.1380)	Storage stability: Evaluation of the freezer Storage stability of novaluron in/on butter, processed meat, milk, white bread, lettuce and dinner plate. Project No. 234C-107. Unpublished study prepared by Wildlife International.	48034902	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1400)	Development and validation of an analytical method for the determination of Rimon in groundwater.	45638309	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1400)	Novaluron: Development and validation of methodology for the determination of residues of Novaluron and its chlorophenyl urea metabolite (275-352 I) in drinking water, ground water and surface water.	45638310	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1400)	Residues in fish	NA	NA	NA	Not required
171-4 (OPPTS 860.1400)	Residues in irrigated crops	NA	NA	NA	Not required
171-4 (OPPTS 860.1460)	Residue in Food Commodities following applicatiojn of a liquid formulation of novaluron as a space spray treatment in a simulated food handling. Report #14521A008. Unpublished study prepared by Landis International.	48034903	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1480)	"RIMON" Technical: Residues in milk and tissues of dairy cows	45638311	Makhteshim-Agan of North America Inc.	OWN	
171-4 (OPPTS 860.1480)	"RIMON" Technical: Residue transfer study – accumulation and depletion of residues in eggs and tissues of laying hens. Project No. MAK/0900/062531, Makhteshim Chemical Works Ltd., Report No R-18701. plus supplemental information	46870601, 47486301	Makhteshim-Agan of North America Inc.	OWN	
171-13 (OPPTS 860.1650)	Submittal of analytical reference standards	NA	NA	NA	Previously submitted (2001)
165-1 (OPPTS 860.1850)	14C-"RIMON": Accumulation in confined rotational crops. Huntingdon Life Sciences Ltd., UK, Report No. MAK559/002865. Makhteshim Chemical Works Ltd., Report No. R-11236	45638312	Makhteshim-Agan of North America Inc.	OWN	
165-2 (OPPTS 860.1900)	Rotational Crop Study: Novaluron treated mustard greens rotated with turnips and wheat	47180502	Makhteshim-Agan of North America Inc	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Environmental Fate:					
161-1 (OPPTS 835.2120)	¹⁴ C "RIMON": Hydrolysis under laboratory conditions	44961008	Makhteshim-Agan of North America Inc.	OWN	
161-2 (OPPTS 835.2240)	¹⁴ C "RIMON": Photolytic degradation in water	45638203	Makhteshim-Agan of North America Inc.	OWN	
161-3 (OPPTS 835.2410)	¹⁴ C "RIMON": Photodegradation on soil...	45638204	Makhteshim-Agan of North America Inc.	OWN	
161-4 (OPPTS 835.2370)	Rimon (Pure): Determination of the physico-chemical properties	44961006	Makhteshim-Agan of North America Inc.	OWN	
162-1 (OPPTS 835.4100)	¹⁴ C - "RIMON": Aerobic Soil Metabolism (Pilot study).	44961010	Makhteshim-Agan of North America Inc.	OWN	
162-1 (OPPTS 835.4100)	¹⁴ C-"RIMON": Aerobic soil metabolism (Route of Degradation)	44961009	Makhteshim-Agan of North America Inc.	OWN	
162-1 (OPPTS 835.4100)	¹⁴ C-"RIMON": Aerobic soil rate of degradation	44961009	Makhteshim-Agan of North America Inc.	OWN	
162-2 (OPPTS 835.4200)	¹⁴ C-"RIMON": Anaerobic soil metabolism	45638205	Makhteshim-Agan of North America Inc.	OWN	
162-3 (OPPTS 835.4400)	Anaerobic Aquatic Metabolism of ¹⁴ C "RIMON"	45638207	Makhteshim-Agan of North America Inc.	OWN	
162-4 (OPPTS 835.4300)	¹⁴ C-"Rimon": Degradability and fate in the water/sediment system	45638206	Makhteshim-Agan of North America Inc.	OWN	
163-1 (OPPTS 835.1230)	¹⁴ C "RIMON": Adsorption/desorption on soil	44961012	Makhteshim-Agan of North America Inc.	OWN	
163-1 (OPPTS 835.1230)	¹⁴ C-275-352 I: Adsorption/desorption on soil	45638201	Makhteshim-Agan of North America Inc.	OWN	
163-1 (OPPTS 835.1240)	¹⁴ C- "RIMON": Soil column leaching	44961011	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
163-2	Volatility (Lab)	NA	NA	NA	Not required
163-3	Volatility (Field)	NA	NA	NA	Not required
164-1 (OPPTS 835.6100)	Terrestrial Field Soil Dissipation of Novaluron. American Agricultural Services, Inc. Cary, N.C	45789204	Makhteshim-Agan of North America Inc.	OWN	
164-2 (OPPTS 835.6200)	Dissipation -- Aquatic sediment (field)	NA	NA	NA	Not required
164-3 (OPPTS 835.6300)	Dissipation -- Forestry (field)	NA	NA	NA	Not required
164-4 (OPPTS 835.6400)	Dissipation -- Combination and tank mixes (field)	NA	NA	NA	Not required
164-5 (OPPTS 835.6500)	Dissipation -- Soil, long-term	NA	NA	NA	Not required
165-1 (OPPTS 860.1850)	¹⁴ C-"RIMON": Accumulation in confined rotational crops.	45638312	Makhteshim-Agan of North America Inc.	OWN	
165-2 (OPPTS 860.1900)	Accumulation --crops	NA		NA	Not required
165-3	Accumulation studies -- irrigated crops	NA	NA	NA	Not required
165-4 (OPPTS 850.1730)	¹⁴ C-"RIMON": Bioconcentration in Bluegill sunfish	45638215	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Health Effects:					
81-1 (OPPTS 870.1100)	GR 572: Acute oral toxicity (LD ₅₀) in rats Inveresk.	44961001	Makhteshim-Agan of North America Inc.	OWN	
81-2 (OPPTS 870.1200)	Acute dermal toxicity to rats of GR 572 Tech	45003201	Makhteshim-Agan of North America Inc.	OWN	
81-3 (OPPTS 870.1300)	GR 572 Tech: Acute inhalation toxicity study in rats (Limit test)	45003202	Makhteshim-Agan of North America Inc.	OWN	
81-4 (OPPTS 870.2400)	Irritant effects on the rabbit eye of GR 572 Tech	45003203	Makhteshim-Agan of North America Inc.	OWN	
81-5 (OPPTS 870.2500)	Irritant effects on rabbit skin of GR 572 Tech	45003204	Makhteshim-Agan of North America Inc.	OWN	
81-6 (OPPTS 870.2600)	Skin sensitization test in Guinea Pigs of the test article GR 572 tech	44961002	Makhteshim-Agan of North America Inc.	OWN	
81-6 (OPPTS 870.2600)	RIMON® Technical - Skin sensitisation in the guinea-pig (incorporating a positive control using hexyl cinnamic aldehyde)	45084001	Makhteshim-Agan of North America Inc.	OWN	
81-7 (OPPTS 870.6100)	Acute delayed neurotoxicity – hen	NA	NA	NA	Not required
81-8 (OPPTS 870.6200)	RIMON Technical: Neurotoxicity study by a single oral gavage administration to CD rats followed by a 14-day observation period.	45082601	Makhteshim-Agan of North America Inc.	OWN	
NONE (OPPTS 870.3050)	GR 572 (Technical): Toxicity to rats by dietary administration for 4 weeks.	45638313	Makhteshim-Agan of North America Inc.	OWN	


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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-8 (OPPTS 870.6200)	RIMON Technical: Neurotoxicity study by a single oral gavage administration to CD rats followed by a 14-day observation period.	45082601	Makhteshim-Agan of North America Inc.	OWN	
NONE (OPPTS 870.3050)	GR 572 (Technical): Toxicity to rats by dietary administration for 4 weeks.	45638313	Makhteshim-Agan of North America Inc.	OWN	
82-1 (OPPTS 870.3100)	"RIMON" Technical: Toxicity study by dietary administration to CD-1 Mice for 13 weeks followed by an 8 week reversibility period.	45651502	Makhteshim-Agan of North America Inc.	OWN	
82-1 (OPPTS 870.3100)	GR 572 (Technical): Toxicity to rats by dietary administration for 13 weeks.	45651503	Makhteshim-Agan of North America Inc.	OWN	
82-1 (OPPTS 870.3100)	GR 572 tech.: 13-week oral toxicity study in rats	45651504	Makhteshim-Agan of North America Inc.	OWN	
82-1 (OPPTS 870.3100)	Rimon Technical: Toxicity study by dietary administration to CD rats for 13 weeks Followed by a 4 week reversibility period.	45030001	Makhteshim-Agan of North America Inc.	OWN	
82-1 (OPPTS 870.3150)	"RIMON" Technical: Toxicity study by oral capsule administration to beagle dogs for 52 weeks.	45638320	Makhteshim-Agan of North America Inc.	OWN	
82-2 (OPPTS 870.3200)	"RIMON" Technical: Toxicity study by dermal administration to CD rats for 4 weeks.	45288501	Makhteshim-Agan of North America Inc.	OWN	
82-3 (OPPTS 870.3250)	90 day dermal	NA	NA	NA	Not required
82-4 (OPPTS 870.3465)	90 day inhalation – rat	NA	NA	NA	Not required
82-5	"Rimon" Technical: Neurotoxicity Study by Dietary Administration to CD Rats for 13 Weeks. Project Number: MAK/759/023152, R/14518, MAK/759.	46086204	Makhteshim-Agan of North America Inc.	OWN	
83-1 (OPPTS 870.4100)	"RIMON" Technical: Combined carcinogenicity and toxicity study by dietary administration to CD rats for 104 weeks...	45651506	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-2 (OPPTS 870.4200)	"RIMON" Technical: Carcinogenicity study by dietary administration to CD-1 mice for 78 weeks...	45651507	Makhteshim-Agan of North America Inc.	OWN	
83-3 (OPPTS 870.3700)	"RIMON" Technical: Preliminary study of embryo-foetal toxicity study in CD the rat by oral gavage administration...	45638315	Makhteshim-Agan of North America Inc.	OWN	
83-3 (OPPTS 870.3700)	"RIMON" Technical: Study of embryo-foetal toxicity in the CD rat by oral gavage administration...	45082602	Makhteshim-Agan of North America Inc.	OWN	
83-3 (OPPTS 870.3700)	Rimon Technical: Study of tolerance in the rabbit by oral gavage administration...	45638316	Makhteshim-Agan of North America Inc.	OWN	
83-3 (OPPTS 870.3700)	"RIMON" Technical: Preliminary embryo-foetal toxicity study in the rabbit by oral gavage administration...	45638317	Makhteshim-Agan of North America Inc.	OWN	
83-3 (OPPTS 870.3700)	"RIMON" Technical: Study of embryo-fetal toxicity in the rabbit by oral gavage administration...	45638318	Makhteshim-Agan of North America Inc.	OWN	
83-4 (OPPTS 870.3800)	"RIMON" Technical: Preliminary study of effects on reproductive performance in CD rats by dietary administration...	45638319	Makhteshim-Agan of North America Inc.	OWN	
83-4 (OPPTS 870.3800)	"RIMON" Technical: Study of reproductive performance in CD rats treated continuously through two successive generations by dietary administration...	45651505	Makhteshim-Agan of North America Inc.	OWN	
83-5 (OPPTS 870.4300)	"RIMON" Technical: Combined carcinogenicity and toxicity study by dietary administration to CD rats for 104 weeks...	45651506	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5100)	RIMON Technical: Bacterial mutation assay	44961013	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5140)	RIMON Technical: Bacterial mutation assay	44961013	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5250)	RIMON Technical: Bacterial mutation assay	44961013	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5195)	<u>In vitro</u> assessment of the clastogenic activity of GR 572 in cultured human lymphocytes.	44961015	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
84-2 (OPPTS 870.5200)	<u>In vitro</u> assessment of the clastogenic activity of GR 572 in cultured human lymphocytes.	44961015	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5300)	<u>In vitro</u> assessment of the clastogenic activity of GR 572 in cultured human lymphocytes.	44961015	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5275)	GR 572 (FCF/T/46): Testing for mutagenic activity with <i>Salmonella typhimurium</i> TA 1535, TA 1537, TA 1538, TA 98 and TA 100 Inveresk.	45030003	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5450)	GR 572 (FCF/T/46): Testing for mutagenic activity with <i>Salmonella typhimurium</i> TA 1535, TA 1537, TA 1538, TA 98 and TA 100 Inveresk.	45030003	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5460)	GR 572 (FCF/T/46): Testing for mutagenic activity with <i>Salmonella typhimurium</i> TA 1535, TA 1537, TA 1538, TA 98 and TA 100 Inveresk.	45030003	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5300)	An assessment of the mutagenic potential of GR 572 using the mouse lymphoma TK Locus Assay.	45638321	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5395)	Mouse micronucleus test on GR 572.	45638322	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5550)	"RIMON" Technical: Bacterial DNA repair (<i>rec</i>) assay.	44961014	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
84-2 (OPPTS 870.5575)	"RIMON" Technical: Bacterial DNA repair (<i>rec</i>) assay.	44961014	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5500)	Assessment of unscheduled DNA repair synthesis in mammalian cells after exposure to GR 572.	45030002	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5550)	Assessment of unscheduled DNA repair synthesis in mammalian cells after exposure to GR 572.	45030002	Makhteshim-Agan of North America Inc.	OWN	
84-2 (OPPTS 870.5575)	Assessment of unscheduled DNA repair synthesis in mammalian cells after exposure to GR 572.	45030002	Makhteshim-Agan of North America Inc.	OWN	
84-4	Other genotoxic effects	NA	NA	NA	Not required
85-1 (OPPTS 870.7485)	¹⁴ C-"RIMON": Metabolism in the rat (Pilot Study)	45638323	Makhteshim-Agan of North America Inc.	OWN	
85-1 (OPPTS 870.7485)	¹⁴ C-"RIMON": Metabolism in the rat	45638401	Makhteshim-Agan of North America Inc.	OWN	
85-2 (OPPTS 870.7600)	Dermal penetration	NA	NA	NA	Not required
86-1	Domestic animal safety	NA	NA	NA	Not required



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Ecological Effects:					
71-1 (OPPTS 850.2100)	The acute oral toxicity (LD ₅₀) of GR 572 Technical to the Mallard Duck.	45499001	Makhteshim-Agan of North America Inc.	OWN	
71-1 (OPPTS 850.2100)	"Rimon" technical - Acute oral toxicity (LD ₅₀) to the Bobwhite quail (<i>Colinus virginianus</i>).	45476801	Makhteshim-Agan of North America Inc.	OWN	
71-2 (OPPTS 850.2200)	The dietary toxicity (LC ₅₀) of GR 572 to the Bobwhite quail.	45499002	Makhteshim-Agan of North America Inc.	OWN	
71-2 (OPPTS 850.2200)	The dietary toxicity (LC ₅₀) of GR 572 to the Mallard Duck.	45499003	Makhteshim-Agan of North America Inc.	OWN	
71-4 (OPPTS 850.2300)	"RIMON" technical: Reproduction in Bobwhite quail.	45638218	Makhteshim-Agan of North America Inc.	OWN	
71-4 (OPPTS 850.2300)	"RIMON" Technical: Reproduction in Mallard duck.	45638219	Makhteshim-Agan of North America Inc.	OWN	
72-1 (OPPTS 850.1075)	The acute toxicity of GR 572 Technical to Rainbow trout (<i>Salmo gairdneri</i>).	45499004	Makhteshim-Agan of North America Inc.	OWN	
72-1 (OPPTS 850.1075)	The acute toxicity of GR 572 Technical to Bluegill sunfish (<i>Lepomis macrochirus</i>).	45499005	Makhteshim-Agan of North America Inc.	OWN	
72-1 (OPPTS 850.1075)	275-352 I: Acute toxicity to Rainbow trout	45499006	Makhteshim-Agan of North America Inc.	OWN	
72-2 (OPPTS 850.1010)	"Rimon" technical: Acute toxicity to the <i>Daphnia magna</i> .	45476802	Makhteshim-Agan of North America Inc.	OWN	
72-2 (OPPTS 850.1010)	275-352 I: Acute toxicity to <i>Daphnia magna</i> .	45499007	Makhteshim-Agan of North America Inc.	OWN	
72-3 (OPPTS 850.1075)	Novaluron: Acute Toxicity to Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Under Flow-Through Conditions.	45638210	Makhteshim-Agan of North America Inc.	OWN	
72-3 (OPPTS 850.1025) (draft guideline)	Novaluron: Acute Toxicity to Eastern Oyster (<i>Crassostrea virginica</i>) Under Flow-Through Conditions.	45638208	Makhteshim-Agan of North America Inc.	OWN	
72-3 (OPPTS 850.1035)	Novaluron: Acute Toxicity to Mysids (<i>Americamysis bahia</i>) Under Flow-Through Conditions.	45638209	Makhteshim-Agan of North America Inc.	OWN	
72-4 (OPPTS 850.1300)	¹⁴ C-"RIMON": <i>Daphnia magna</i> Reproduction test	45638211	Makhteshim-Agan of North America Inc.	OWN	
72-4 (OPPTS 850.1300)	(Carbon 14)-"Rimon": <i>Daphnia magna</i> Reproduction Test: Final Report. Project Number: MAK/405, MAK405/974265	46581401	Makhteshim-Agan of North America Inc.	OWN	
72-4 (OPPTS 850.1350)	Novaluron: Life Cycle Toxicity Test with Mysids (<i>Americamysis bahia</i>).	45638212	Makhteshim-Agan of North America Inc.	OWN	



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Ingredient Novaluron					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-4 (OPPTS 850.1400)	¹⁴ C-"RIMON" Technical: Fish early life stage toxicity test for Fathead minnow (<i>Pimephales promelas</i>).	45638213	Makhteshim-Agan of North America Inc.	OWN	
72-5 (OPPTS 850.1500)	Novaluron: Determination of effects on the reproduction of fathead minnow (<i>Pimephales promelas</i>).	45638214	Makhteshim-Agan of North America Inc.	OWN	
OPPTS 860.1135	(Carbon 14) "Rimon" to Assess the Toxicity to the Sediment Dwelling Phase of the Midge Chironomus riparius. Project Number: MAK/508, MAK/508/992185, R/10339.	46581402	Makhteshim-Agan of North America Inc.	OWN	
72-6 (OPPTS 850.1730)	¹⁴ C-"RIMON": Bioconcentration in Bluegill sunfish	45638215	Makhteshim-Agan of North America Inc.	OWN	
72-7 (OPPTS 850.1950)	Simulated or actual field testing – aquatic organisms	NA	NA	NA	Not required.



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Ecological Effects (Plant Protection):					
121-1 (OPPTS 850.4025)	Target Area phytotoxicity	NA	NA	NA	Not required
122-1 (OPPTS 850.4100)	Tier 1: Seed germination / seedling emergence	NA	NA	NA	Not required
122-1 (OPPTS 850.4150)	Tier 1: Vegetative vigor	NA	NA	NA	Not required
122-2 (OPPTS 850.4400)	Tier 1: Aquatic plant growth	NA	NA	NA	Not required
123-1 (OPPTS 850.4200)	Tier 2: Seed germination	NA	NA	NA	Not required
123-1 (OPPTS 850.4225)	Tier 2: Seedling emergence	NA	NA	NA	Not required
123-1 (OPPTS 850.4250)	Tier 2: Vegetative Vigor	NA	NA	NA	Not required
123-2 (OPPTS 850.5400)	"RIMON": Higher plant (<i>Lemna</i>) growth inhibition test	45638223	Makhteshim-Agan of North America Inc.	OWN	
123-2 (OPPTS 850.5400)	"RIMON" Technical: Algal growth inhibition assay	45638221	Makhteshim-Agan of North America Inc.	OWN	
123-2 (OPPTS 850.5400)	275-352 I: Algal growth inhibition assay. 45638221	45638222	Makhteshim-Agan of North America Inc.	OWN	
124-1 (OPPTS 850.4300)	Tier 3: Terrestrial field	NA	NA	NA	Not required
124-2 (OPPTS 850.4450)	Tier 3: Terrestrial – aquatic field	NA	NA	NA	Not required



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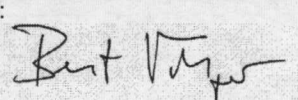
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<u>Ecological Effects</u> <u>(Nontarget insects):</u>					
141-1 (OPPTS 850.3020)	Rimon (Novaluron) Technical: Acute toxicity to honey bees (<i>Apis mellifera</i>)...	45638220	Makhteshim-Agan of North America Inc.	OWN	
141-2 (OPPTS 850.3030)	Honeybee – toxicity of residues on foliage	NA	NA	NA	Not required
141-4	Honeybee – subacute feeding study	NA	NA	NA	Not required
141-5 (OPPTS 850.3040)	Field testing for pollinators	NA	NA	NA	Not required
142-1	Acute toxicity to aquatic insects	NA	NA	NA	Not required
142-1	Aquatic insect life-cycle study	NA	NA	NA	Not required
142-3	Simulated or actual field testing for aquatic insects	NA	NA	NA	Not required
143-1 thru 143-3	Nontarget insect testing – predators and parasites	NA	NA	NA	Not required



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Other Studies:					
NONE	"RIMON" Technical: Prolonged toxicity to Rainbow trout under flow-through conditions. 28 Day study.	45638216	Makhteshim-Agan of North America Inc.	OWN	
NONE	"Rimon" Technical: Acute toxicity (LC ₅₀) to the earthworm (<i>Eisenia foetida</i>).	45638224	Makhteshim-Agan of North America Inc.	OWN	
NONE	Chlorophenyl urea: Acute toxicity (LC ₅₀) to the earthworm (<i>Eisenia foetida</i>).	45638225	Makhteshim-Agan of North America Inc.	OWN	
NONE	Rimon Technical: Effects on soil non-target micro-organisms.	45638217	Makhteshim-Agan of North America Inc.	OWN	
NONE	Probabilistic Modeling of Novaluron Exposure to Aquatic Non-target Organisms and Drinking Water Associated with Use on Cotton and Apples.	45638402	Makhteshim-Agan of North America Inc.	OWN	
	Signature: 		Name and Title: Bert Volger, Ph.D., Consultant for Makhteshim-Agan of North America, Inc.		Date: 04/12/2010